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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/653,281	08/31/2000	Kevin L. Beaman	M4065.0278/P27899-0818	4745
7	590 11/07/2002			
Thomas J D'Amico Dickstein Shapiro Morin & Oshinsky LLP 2101 L Street NW			EXAMINER	
			BOOTH, RICHARD A	
Washington, DC 20037-1526			ART UNIT	PAPER NUMBER
			2812	
			DATE MAILED: 11/07/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		USIC				
	Application No.	Applicant(s)				
	09/653,281	BEAMAN ET AL.				
<ul> <li>Offic Acti n Summary</li> </ul>	Examiner	Art Unit				
	Richard A. Booth	2812				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) Responsive to communication(s) filed on 22 A	August 2002 .					
2a)☑ This action is <b>FINAL</b> . 2b)☐ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disp sition of Claims						
4)⊠ Claim(s) <u>1-3,5-19,21-31 and 34-51</u> is/are pending in the application.						
4a) Of the above claim(s) <u>46-51</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3,5-19,21-31 and 34-45</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) ☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	, ,	· ·				
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti	• •					
Attachment(s)						
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing R view (PTO-948)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) 16	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability-shall-not-be-negatived-by-the-manner-in-which the invention was made.

Claims 1-3, 5-6, 11-19, 21, 26-31, 34-36, and 41-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al., U.S. Patent 6,376,309.

Wang et al. is applied as in the office action mailed 8-22-02 with respect to claims 3-5, 11-14, 18-20, 26-29, 33-35, and 41-44 for the reasons of record.

Claims 7-10, 22-25, and 37-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. as applied to claims 1-3, 5-6, 11-19, 21, 26-31, 34-36, and 41-45 above, and further in view of Neely et al., U.S. Patent 5,443,863.

Wang et al. is applied as above and Neely et al. is applied as in the office action mailed 5-28-02 for the reasons of record.

# Response to Arguments

Applicant's arguments filed 8-22-02 have been fully considered but they are not persuasive. Applicant argues that the Wang et al. reference fails to show the particular time of oxidation or the temperature of oxidation. However, and as stated in the previous office action, generally, differences in processing parameters such as

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temperature will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such temperature is critical. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955) (see MPEP 2144.05). Concerning the limitation directed to forming said oxide layer to 60% of a targeted thickness, such a limitation is purely arbitrary since a process can be divided into an infinite number of smaller parts. when a layer is 60% formed, this can arbitrarily be taken to meet the claim limitation. With respect to the use of the Neely et al. reference, the motivation for replacing the oxidation in Wang et al. with the Neely et al. reference is to reduce the thermal budget of the oxidation in Wang et al.. Therefore, a proper prima facie case of obviousness has been established. The combination of Neely et al. with Wang et al. will not destroy the intended purpose of the Wang et al. reference. Furthermore, lin response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard A. Booth whose telephone number is 308-3446. The examiner can normally be reached on Monday-Thursday from 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on 308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are 308-7724 for regular communications and 308-7724 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-1782.

Richard A. Booth Primary Examiner

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November 4, 2002